M103-NSP301-002

# NIGHT VISION DSP COLOR CCTV CAMERA

## OPERATION MANUAL

Thank you for choosing our high quality camera.
Before attempting to connect operate this unit,
please read and follow these instructions.

## KEY FEATURES

These CCD video cameras employ a SONY 1/3" CCD solid-state image device which provides superior performance.
These cameras can be installed easily in most indoor and outdoor locations with a very low current consumption of 380mA or less.
These cameras are not only easy to install but achieve an excellent reliability record.

## ACCESSORIES FURNISHED

| Accessories | Mounting Bracket | Screw | Coin Hole Bolt | Washer | Sun Shield | Manual |
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## SPECIFICATIONS

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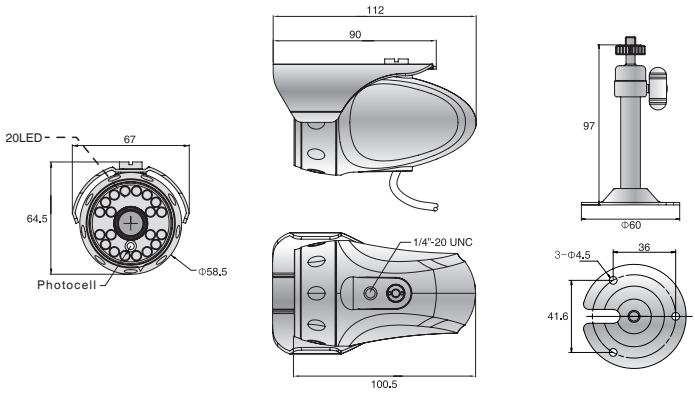
|---|---|
| Signal Format | NTSC |
| Image Device | 1/3" Sony Super HAD CCD Ⅱ |
| Scanning System | 2 : 1 Interlace |
| H.Resolution | 600TV Lines |
| Scanning Frequency | 15.734KHz(H), 59.94Hz(V) |
| Total Pixels | 811(H) x 508(V) |
| Effective Pixels | 768(H) x 494(V) |
| Electronic Shutter Speed | 1/60 ~ 1/100,000 sec |
| S/N Ratio | More than 50dB(AGC OFF) |
| Gamma | r= 0.45 |
| Sensitivity | 0 Lux (IR LED ON) |
| Sync System | Internal |
| Video Output | 1.0 Vp-p Composite(75Ω) |
| Lens | IR 3.6mm |
| IR LED | 20 Units |
| IR LED Wavelength | 850 nm |
| IR Beam Range | Up to 30M |
| Input Power Source | DC 12V ±10% Max. 380mA(IR LED On) |
| Operating Temperature | 14°F~122°F(-10°C~+50°C) |
| Storage Temperature | -4°F~140°F(-20°C~+60°C) |
| Operating Humidity | Less than 80% |
| Water Resistant | IP67 |

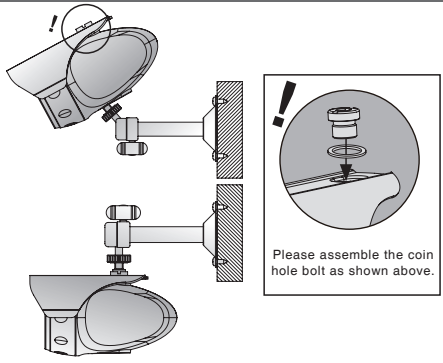
Specifications and designs are subject to change for improving the functionality of this product without notice.

## DIMENSIONS

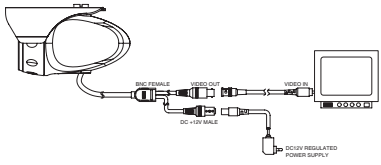



Unit : mm

## CAMERA MOUNTING POSITION




## CONNECTION




DIY CABLE CONNECTION

When you install the camera, please glue up the end of cable to keep it stable in order to protect the camera from the humidity problems.

### This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions;

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

### Note

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense."

### WARNING

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

### Caution

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## ⚠ CAUTION

1. A regulated DC12V 500mA power supply is recommended for use with this camera for the best picture and the most stable operation.
   **An unregulated power supply can cause damage to the camera.**
   **When unregulated power supply is applied, product warranty will be out of subject.**
2. It is recommended that the camera is used with a monitor that has a CCTV quality 75 video impedance level.
   If your monitor is switched to high impedance then please adjust accordingly.
3. Do not attempt to disassemble the camera to gain access to the internal components. Refer servicing to your dealer.
4. Never face the camera towards the sun or any bright or reflective light, which may cause smear on the picture and possible damage to the CCD.
5. **Do not remove the serial sticker for the warranty service.**